

**AMENDMENTS TO THE DRAWINGS**

The attached replacement sheets of drawings, 1/7, 4/7, 5/7, and 6/7, include the following change to the figures:

Figures 1, 5, and 6, please add the label —PRIOR ART— as shown.

Figure 4, please add the reference number —S<sub>EF</sub>— as shown.

**REMARKS**

The Office Action in the above-identified application has been carefully considered and this amendment has been presented to place this application in condition for allowance. Accordingly, reexamination and reconsideration of this application are respectfully requested.

Claims 1-15 and 17 are in the present application. It is submitted that these claims, are patentably distinct over the prior art cited by the Examiner, and that these claims are in full compliance with the requirements of 35 U.S.C. § 112. Changes to the claims, as presented herein, are not made for the purpose of patentability within the meaning of 35 U.S.C. sections 101, 102, 103 or 112. Rather, these changes are made simply for clarification and to round out the scope of protection to which Applicants are entitled. Claims 15 and 16 are canceled.

The Abstract was objected to for being multiple paragraphs and longer than 150 words. In response, a new Abstract has been submitted. Accordingly, Applicants believe this objection has been overcome.

The Specification was objected to because of various informalities. In response, the section heading "CLAIMS" has been changed to "We Claim:" Also, as discussed below, various paragraphs have been amended to address the Examiner's objections to the drawings. Accordingly, Applicants believe this objection has been overcome.

The drawings were objected to because of various informalities. In response, Figures 1, 5, and 6 have been labeled as "PRIOR ART" Figure 4 has also been amended to label the error

flag S<sub>EF</sub>. The Specification has been amended to explain the numbers in Figures 5 and 6. As these are simply representative numbers and not reference numbers to specific elements shown in the figures, Applicants believe a general explanation is sufficient in describing their purpose. Applicants have also amended the Specification to correct the reference numbering of the control circuit 120 and multiplexing circuit 101 shown in Figure 1. Accordingly, Applicants believe each of the Examiner's objections has been overcome.

Claims 1-17 were objected to for various informalities. Claims 1, 7, 15, and 17 have been amended in accordance with each of the Examiner's comments. Accordingly, Applicants believe this objection has been overcome.

Claims 6-17 were objected to under 35 U.S.C. § 112, second paragraph, as being indefinite for not providing a sufficient antecedent basis for several terms. Claims 6-9, 12-14, and 17 have been amended to provide a sufficient antecedent basis for all limitations. Claims 15 and 16 are canceled. Accordingly, Applicants believe this objection has been overcome.

Claims 7 and 8 were rejected under 35 U.S.C. § 102(e) as being anticipated by Park et al. (U.S. Patent 6,470,030). However, Claim 7 recites "a broadcast signal generated by combining a main signal comprised of a data series generated in accordance with information source data interleaved and encoded using a parameter set in accordance with a frequency of a broadcast channel." (Claim 7) The Examiner relies on Park for disclosing interleaving and encoding using a parameter set. (Office Action page 7; Figure 13) However, Park does not disclose interleaving and encoding based on the frequency as required in the present invention. Further, the Examiner

does not indicate specifically how Park meets this part of the claim limitation. Accordingly, Park fails to anticipate the present invention and the rejected claims should now be allowed.

Claims 1-4, 6-12, and 14 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Park in view of Kleider et al. (U.S. Patent 6,487,252). However, the present claims recite “a PRBS (pseudo-random binary sequence) generated based on an initial value set in accordance with a frequency of a broadcast channel.” (Claim 1) The Examiner relies on Kleider for meeting the present invention’s PRBS limitations. (Office Action page 8) Kleider’s reference provider 33 generates a PN sequence using a frequency bin assignment table 110. (Column 3, lines 37-43) This is similar to the present invention’s random assignment of phases as shown in Figure 5. However, Kleider does not disclose how the initial value is set or whether it is “set in accordance with a frequency of a broadcast channel” as required in the present claims. Accordingly, the combination of Park and Kleider fails to obviate the present invention and the rejected claims should now be allowed.

Claims 5 and 13 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Park in view of Kleider and Mitsubori et al. (JP 11-145929). Mitsubori is relied upon solely to meet limitations found in the dependent claims. However, like Park and Kleider as discussed above, Mitsubori fails to meet the limitations of the independent claims. Accordingly, the combination of Park, Kleider, and Mitsubori fails to obviate the present claims for the same reasons and the rejected claims should now be allowed.

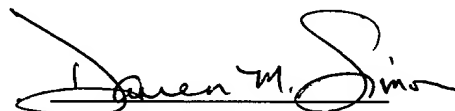
In view of the foregoing amendment and remarks, it is respectfully submitted that the application as now presented is in condition for allowance. Early and favorable reconsideration of the application are respectfully requested.

No additional fees are deemed to be required for the filing of this amendment, but if such are required, the Examiner is hereby authorized to charge any insufficient fees or credit any overpayment associated with the above-identified application to Deposit Account No. 50-0320.

If any issues remain, or if the Examiner has any further suggestions, he/she is invited to call the undersigned at the telephone number provided below. The Examiner's consideration of this matter is gratefully acknowledged.

Respectfully submitted,  
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